

Exhibit A

JAN 06 2003

 Nucleotide

PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM Bio

Search for

Limits Preview/Index History Details

Display

[1: AA362146. EST71810 Macropha...[gi:2014696]

Links

IDENTIFIERS

dbEST Id: 1003685
EST name: EST71810
GenBank Acc: AA362146
GenBank gi: 2014696

CLONE INFO

Clone Id: (3' end)
Source: ATCC
Id in host: 166475
Other ESTs on clone: EST71811 THC128798
DNA type: cDNA

PRIMERS

Sequencing: M13-21
PolyA Tail: Unknown

SEQUENCE

CTTCA GTGAA GTTTATT CAGAAC CATTGAA CAGTAT GATATT GCTCATT TATAA ATAT
 TCCCATTAAATAATCTGAGCTTATATATTNCAGT GTTAATTAAAGGACTTGATTTAA
 GAGAGCACACCAGTCAAATTGAATTGATTCATAGCTATTAAA ACTAGGCTCTTTAC
 AGACACTGCTACTTCTGCCCCCTTGAATAAAATTAGACCAATGAATAAAACAAACAAAC
 AAATAAAATAAAATAGGAAGCGTTGCTCATCAGAATGTGGGAGCGAATGACAGAGG
 GTTTCTTAAAAAACTGGAATGTTGGCATGCATTGACTTCACACTCTGAAGAACATCCT
 GACAGTCATCCACATCTACTTCAAGGAATATCACGNTGGAAATACTTTCAGAG

Entry Created: Apr 21 1997
Last Updated: Apr 21 1997

COMMENTS

For clone availability, additional sequence and expression information related to this EST, please check the TIGR Human Gene Index (<http://www.tigr.org/tgb/hgi/hgi.html>)

PUTATIVE ID Assigned by submitter
 similar to interleukin 1, beta (GB:X04500)

LIBRARY

Lib Name: Macrophage II
Organism: Homo_sapiens
Cell type: macrophage
Develop. stage: adult
Vector: pBluescript SK-
R. Site 1: EcoRI
R. Site 2: XhoI

SUBMITTER

Name: Kerlavage, AR

Lab: Bioinformatics
Institution: The Institute for Genomic Research
Address: 9712 Medical Center Drive, Rockville, MD 20850 USA
Tel: 3018699056
Fax: 3018699423
E-mail: arkerlav@tigr.org

CITATIONS

Medline UID: 96026280
Title: Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
Authors: Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult, C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White, O., Sutton, G., Blake, J.A., Brandon, R.C., Man-Wai, C., Clayton, R.A., Cline, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D., Fitzgerald, L.M., Fitzhugh, W.M., Fritchman, J.L., Geoghegan, N.S., Glodek, A., Gnehm, C.L., Hanna, M.C., Hedblom, E., Hinkle, P.S. Jr., Kelley, J.M., Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M., Moreno-Palangues, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M., Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R., Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y., Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J., Dimke, D., Feng, D.-F., Ferrie, A., Fischer, C., Hastings, G.A., He, W.W., Hu, J.S., Greene, J.M., Gruber, J., Hudson, P., Kim, A.K., Kozak, D.L., Kunsch, C., Hungjun, J., Li, H., Meissner, P.S., Olsen, H., Raymond, L., Wei, Y.F., Wing, J., Xu, C., Yu, G.L., Ruben, S.M., Dillion, P.J., Fannon, M.R., Rosen, C.A., Haseltine, W.A., Fields, C., Fraser, C.M., Venter, J.C.
Citation: Nature 377 (6547 Suppl): 3-174 1995

MAP DATA

Revised: July 5, 2002.

[Disclaimer](#) | [Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)

Dec 19 2002 15:44:50